## PROPOSED SOLUTION

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| Team ID | PNT2022TMID49968 |
| Project Title | Digital Naturalist - AI Enabled tool for Biodiversity Researchers |

**Proposed Solution Template:**

| S.No. | Parameters | Description |
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| 1. | Problem Statement (Problem to be solved) | One of the most problem is faced by the individual are biodiversity, or the v of all living things on our planet, has been declining at an alarming rate in re years, mainly due to human activities, such as land use changes, pollution a climate changes. |
| 2. | Idea / Solution description | This app is an image sharing and retrieval application for the identification plants, available on Android . Contrary to previous content-based identifica applications can work with several parts of the plant including flowers, leav fruits and bark. Biodiversity is the life support system. The project aims to c an web application for the hikers to identify rare species of birds , flowers , animals and more . The proposed system in biodiversity research using the computer vision in Artificial Intelligence. helps to detect environment, parti species and locations. Data collected so far makesit one of the largest mobi identification tools . |
| 3. | Problem root cause | When venturing into the woods , field naturalist usually rely on common approaches like always carring a guidebookaround everywhere or seeking h from experienced ornithologist .<br>Lack of proper documentation<br>Lack of training set |

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| 4. | Social impact/ Customer satisfaction | Individual are facing the network issues.The increasing availability of digital images, coupled with artificial intelligence (AI) techniques for image classifi presents an exciting opportunity for biodiversity researchers to create new datasets of species observations. We found more over geolocated images ta with the keyword ‘‘flower’’ across an urban and rural location in the UK and classified these using AI, reviewing these identifications and assessing the representativeness of images. |
| 5. | Customer Segments | Individual who are interested in biodiversity researchers. Detecting and classifying objects in a single frame which consists of several objects in a cumbersome task. With the advancement of computer vision techniques, t of accuracy has increased significantly. This paper aims to implement the s the art custom algorithm for detection and classification of objects in a sin frame with the goal of attaining high accuracy with a real time performanc proposed system utilizes architecture coupled with MobileNet to achieve maximum accuracy. The system will be fast enough to detect and recogniz multiple objects even at 30 FP |
| 6. | Available Solutions | Developing a solution, which can able to identify the correct species , locati environment for the given image would be beneficial for many individual a as ornithologist. Merits : interaction between the individual & biodiversity researchers is more efficient & effective . Demerits : If network is not avail then it doesn't give a result . |